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16:32:10 2008 Function Index	Wed Jan 02 16:32:10 2008	Page 1	Function Index	Wed Jan 02 16:32:10 2008
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Page 2

Page 3	Page 3
Function Index	Function Index
Wed Jan 02 16:32:10 2008 Page 4	Wed Jan 02 16:32:10 2008 Page 4
Page 4	Page 4
Function Index	Function Index
Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008

Page 1 Wed Jan 02 16322-10 2008 File Index

Page 3	Page 3
File Index	File Index
Wed Jan 02 16:32:10 2008 Page 4	Wed Jan 02 16:32:10 2008 Page 4
Page 4	Page 4
File Index	File Index
Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008

Wed Jan 02 16:32:10 2008 RSI start c 2
<pre>eerrno_ty RSTSL_Start(int SubmitObjectID, boolean_ty (*QuitTest)(</pre>
SubmitObjectD () - ID of the submit object which describes the restore outlfest (I) - function to call to check for quit signal
* Parameters:
* This function begins execution of the restoral of the objects in * submit object. Its progress and requests for operator input are
/xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
if(str[rem_nl_index] == '\n')\ str[rem_nl_index] = '\0';\
<pre>int rem_nl_index:\ ifor(rem_nl_index = 0; str(rem_nl_index) != '\0'; rem_nl_index++)\ {\}</pre>
#define STR_SURE(str) (str) ? str:" #define REMOVE_NEWLINE(str)\
/* * #defines, structures, typedefs local */
RunCleanupRestore (int SubmitObjectID, boolean_Ev (*Quit'int runphase_statt int *CleanupExit);
<pre>sratic eerrno_ry RunPrepareRestore(int SubmitObjectID,</pre>
static eerrno_ty ExecuteWorkItemRestore(int SubmitObjectID, boolean_ty (*Quit')
extern int RunWorkItemRestores(int, boolean_ty (*CancelRestoreTest)());
extern int RunExecutable (const boolean_ty ResetUid const int RunUid, const int RunUid, const char *starting_cod,
#include <restore reprogmsg.h=""> #include <restore dispatch_daemon.h=""> #include <restore edmreprogressapi.h=""></restore></restore></restore>
#include <rslinterns.h> #include <rslauxsupp.h> #include <restore edmresubmitapi.h=""></restore></rslauxsupp.h></rslinterns.h>
Wed Jan 02 16:32:10 2008

	Page 4 of 68	68 RSLstart.c 3 Wed Jan 02 16:32:10 2008	Page 3 of
else if (stats.edm.successful > stats.edm.failed) ret_all_ok = EP_RB_RECOVER_FEWFAIL;	238 3	setGlobalStatus(EDMRE_STATE_USER_QUIT); /* set RE's internal status */	182 3
ret_all_ok = EP_RB_RECOVER_ALLFAIL;		execution.");	
<pre>if (0 == stats.edm.successful)</pre>	236 3	<pre>ibe_iog_scats(&r_kb_kbcovbk_hboki,</pre>	181 3
feel all and a second		A STATE OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERT	
else if (stats.edm.failed)	234 2	if(QuitTest()) /* check for abort before return */	178 2
<pre>ret_exec = ret_ell_ok = EP_RB_RECOVER_EXECUTEFAILED;</pre>		rcp, SubmitObjectID, QuitTest);	
ŗ			176 2
(rbe_log_stats(230 3	<pre>ret_exec = rcp-> currentPIptr-> piFuncArray[PIFuncIndexStartRestore]</pre>	175 2
if (0 != getRestoreStatus(0, &stats, &local_stat))		/* set RE's internal status */	
memset(&stats, 0, sizeof(EDMStats));		setGlobalStatus (EDNRE STATE EXECUTE):	173 2
int local_stat; EDMStats stats;	225 2	&& NULL != rcp-> currentPIptr-> piFuncArray(PIFuncIndexStartRestore)	172 1
		if (rcp-> rc_backup_app != 0	
rat eyer)	223 1	<pre>/* if not a network restore,</pre>	169 1
QuitFlag = QuitTest(); /* check for abort before cleanup */	220 1	<pre>rbe_log_stats(0, "Restore Started with client destination %s.",</pre>	166 1
ret_exec = ExecuteWorkLtemWestore(SubmitVojecti);	217 1	rcp->rc_human_uid, rcp->rc_human_gids[0]);	164 1
		<pre>rbe_log_stats(0, "Restore Started by user %s, Uid %d, Gid %d.",</pre>	162 1
	215 1		
	212 2 213 1	STR_SIME[rep-re_template_name); STR_SIME[rep-re_template_name); (rep-re_saveset_thread) ? "Alternate": "Primary");	158 1
setGlobalStatus(EDMRE_STATE_FAILED); /* set RE's internal status */	211 2	<pre>xbe_log_stats(0, "Westore Started of "\ "top level object: %s. template %s, trailset %s.",</pre>	
"The restore tailed during preparation. Exit so", PreparaExit);	208 2	name);	
1		-> CD-A COTTENDED TOTAL ACTION (A) TO	153 1
if(PrepareExit != 0)	205 1	: ((struct pluginIDdata *)(152 1
		(rep->re_backup_s= 0)	
<pre>setGlobalStatus(EDMRE_STATE_USER_QUIT); /* set RE's internal status */</pre>	202 2	ENGLANCE STREET OF STREET AS BOX FOR THE TOTAL BOX STREET OF STREE	
"The restore was quit by the user during preparation.");	201 2	The log etate() "Beginned Stating at we ". Ascrine):	
rbe_log_stats(EP_RB_RECOVER_ABORT,		REMOVE_NEWLINE (asctime);	145 1
if(EP_RB_RECOVER_ABORT == ret_pre)	198 1	rcp->rc_cmd_last_waf_time = rcp->rc_cmd_starttime;	143 1
&PrepareExit);	196 1	(void)ctime_r(&rcp->rc_cmd_starttime, asctime, 32);	141 1
ret_pre = RunPrepareRestore(SubmitObjectID,	194 1	(void)time(&rcp->rc_cmd_starttime);	139 1
A CONTRACT OF THE PROPERTY OF	192 1	memset(asctime, 0, 32);	137 1
refurn(ret exec):		char asctime[32];	135 1
setGlobalStatus(EDMRE_STATE_SUCCESSFUL); /* set RE's internal status */	189 2	int Cleanupsxit * 0; boolean_ty QuitFlag = FALSE;	132 1
/* set RE's internal status */		int PrepareExit = 0;	130 1
if (E_SUCCESS != ret_exec)	186 2		128 1
return EP_RB_RECOVER_ABORT;	183 3	int ret_pre;	127 1
68 RSTSL_Start Wed Jan 02 16:32:10 2008	Page 4 of 68	of 68 RSTSL_Start Wed Jan 02 16:32:10 2008	Page 3 of 68

Wed Jan 02 16:32:10 2008

RSLstart.c5

Page 5 of 68 Wed Jan 02 16:32:10 2008

RSLstart.c6

Page 6 of 68

										-			-									
	372 1 373	370 1	367 2		360 2 361 2 363 3		356 2 356 2			346 Z 347 2 348 2 349 1			337 2	334 1 335 1	332 1	329 1 330 1		326 1	22	321	320	Page
	return.	Ų	if(T)	re:	_			_				if(0 !	* .			-	-	-		Static	#define	Page 7 of 68
	return(E_SUCCESS);		<pre>if(TRUE == restore_cancelled) return (EP_RB_RECOVER_ABORT);</pre>	rbe_log_state(0. "Interal error: Failed in RunExecutable for prepare."); return (EP_NB_RECOVER_FATALERR);	PrepareExit, &restore_cancelled, QuitTest))	prephaseargs,	T Numbascucatters. NULL, NULL,	setGlobalStatus(EDMRE_STATE_PREPHASE);	if(0 != strcmp(preExecutable, ""))	<pre>rbe_log_stats(0,"Internal error: Failed in GetSOPrePhase"); return (EP_RB_RECOVER_FATALERR);</pre>	&prephaseenv, &GetSOstatus))	<pre>if(0 != GetSOPrePhase(SubmitObjectID,</pre>		' GetSOPrePhase allocates prephaseargs & prephaseenv. 'This will need to be free'ed later.	*PrepareExit = 0;	<pre>char preExecutable(EXECUTABLE_MAX); boolean_ty restore_cancelled = FALSE;</pre>	int GetSostatus = 0;	char **prephaseargs = NULL;	boolean_ty (*QuitTest)(void), int *PrepareExit)	<pre>static eerrno_ty</pre> <pre>sunPrepareRestore(int SubmitObjectID.</pre>	#define EXECUTABLE_MAX 1024	RunPrepareRestore
				scutable for prepare.");	·					GetSOPrePhase");				ephaseenv.					9,			Wed Jan 02 16:32:10 2008
																					375	Page 8 of 68
																					boolean_ty a	3 of 68
																					<pre>boolean_ty alwaysFalse() { return FALSE; }</pre>	alwaysFalse
																						Wed Jan 02 16:32:10 2

Page 11 of 68	487 1	482 483 484 485 1	Page 11 of 68
of 68 RSLstart.c 11	return(E_SUCCESS);	<pre>static eerrno_ty RunExecutionOverrideRestore(int SubmitObjectID, boolean_ty (*QuitTest)(void))</pre>	1 of 68 RunExecutionOverrideRestore
Wed Jan 02 16:32:10 2008		D, tTest) (void))	Wed Jan 02 16:32:10 2008
Page 12 of 68			489 #undi
2 of 68 RSLstart.c 12			#undef EXECUTABLE MAX
Wed Jan 02 16:32:10 2008			Wed Jan 02 16:32:10 2008

RELIMISTIC C 1998,1999 by EMC Corporation. Leant of the control execution of work item restore out the control execution of work item restore tenctions are provided to allow: g functions comprise restoral management: Extramemeraces() ### Options: ###	Wed Jan 02 16:32:10 2008 RSLwisvr.c 2 Page 14 of 68	Wed Ja	Wed Jan 02 16:32:10 2008 RSLwisvr.c 1 Page 13 of 68	Wed Jar	
ESUMISTIC CONTROL OF THE FIRST	PebugLogFds(char *error_msg, fd_set *fds);	126	/*	63	
RESIDUAL STOTE Representation Residual	static void	125	#define STR_SURE(str) (str) ? str:""	60	
### RESIDENCE CORPORATION. ### 130 NB Wed Ann CZ 1632/102008 ### Ann Procedure of the Corporation. #### Ann Procedure of the Corporation. #### Ann Procedure of the Corporation. #### Ann Procedure of the Corporation of work item restores for the Corporation are provided to allow: ###################################	static int test_fd(int fd);	122 123	#include <restore edmresubmitapi.h=""> #include <edmredrainapi.h></edmredrainapi.h></restore>	58	
SELUCION Secondary Secon	***CQTD-GCMOLVICGHOADCOLGXGDGTCD(MITTEDCOLGTTGBGGTCD .: 169GTCA!)	1.00		56	
### RESUMENT.C Second Process	Static int	119		5 5	
### RESUMSIVIC C 1995,1999 by ENC Corporation. Figure Figure	/* Stubs */	118		53	
### RESUMBING: SELVESTOR: College Colle	*/	116		5 5	
### RESUMENCE. SELVATORIC 1998, 1999 DEC Corporation. 160		115		;	
### RESUMBING: SELVESTOR: Colored Control of Work Item restores for constitutions are provided to allow: Selvestores 1			*/	4 6	
### RECURRENCE OF THE FIRST CONTROLLER RECOVERS #### RECURRENCE OF THE FIRST CONTROLLER RECOVERS ###################################		112	/*	5	
### RESIDENCE COLORAGE ### RESIDENCE CONTINUENCE CONTINUENCE COLORAGE ### RESIDENCE CONTINUENCE CONTINUENCE COLORAGE ### RESIDENCE CONTINUENCE CONTINU	* return: exit loop.	111	and Smuth and an	ć	
### RECURRENCE OF COMPONENTIAL PROBLEMS ### RECURRENCE OF COMPONENTIAL PROBLE	* if (((SetQuitFlag == TRUE) && (TrailRestoresRunning == 0))//	109	#include <ebutil ebutil.h=""></ebutil>	2 2	
### RESUMENCE. State Properties Prope	* End for each WI completes	108		đ	
RESUMENTIC Composition Fig. 130 HBS Machine Composition Comp	* end else	107	#include <eb eb_port.h=""></eb>	8 8	
RESINISVIC C. 1995.1999 by ENC Corporation. 1600 1600 1995.1999 by ENC Corporation. 1600 1995.1999 by ENC Corporation. 1600 1995.1999 by ENC Corporation. 1600 1995.1999 by ENC Corporation of work item restores for 17	* end while	105	* Epoch headers.	6	
ESIMISTIC C. (2) 1998, 1999 by ENC Corporation. Estimistric C. (3) 1998, 1999 by ENC Corporation. Estimate control execution of work item restores for constitute of the control execution of work item restores for the control execution state that any complie time definitions that control execution must list any complie time definitions that control execution is section must list any complie time definitions that control execution is section must list any complie time definitions that control execution is section must list any complie time definitions that control execution is section must list any complie time definitions that control execution is section must list any complie time definitions that control execution is section must list any complie time definitions the control execution progress for work item. Examination progress for work items and finite progress for work items. Examination progress for work items (a secondal) is a section must list any complied the control execution progress for work items. Examination	* StartWIRestore	104	/*	3.9	
RESINISUR. C. () 1999, 1999 by ENC Comporation. RESINISUR. C. () 1999, 1999 by ENC Comporation. RESINISUR. C. () 1999, 1999 by ENC Comporation. Restore a the contents of this file is to implement the ons the contents of this file is to implement the ons the contents of this file is to implement the continuous computation of work item restores for the life of the 'Thilisentores Manufacture' () 1999, 1999 by ENC Comporation of work item restores for the life of the 'Thilisentores Manufacture' () 1999, 1999 by ENC Comporation of work item restores for the life of the 'Thilisentores Manufacture' () 1999, 1999 by ENC Comporation of work item restores for the life of the 'Thilisentores Manufacture' () 1999, 1999 by ENC Comporation of the control and NCOntents of the Composition of the	* while (103	#include <values.h></values.h>	37	
RESUMBNIC C 1998, 1999 by ERC Corporation. 126 of the life of the life of the life of the life of the centre of the control execution of work item restores for a library. 126 of the control execution of work item restores for a library. 127 of the control execution of work item restores for the library. 127 of the control execution of work item restores for a library. 127 of the control execution of work item restores for the library. 127 of the control execution of work item restores for a library. 127 of the control execution of work item restores for a library. 127 of the control execution of work item restores for a library. 127 of the control execution complied to allow: 127 of the control execution 127 of the control	* TrailRestoresRunning++;	102	#include <sys wait.h=""></sys>	36	
RELIVISURE Comporation. RELIVISURE Comporation. RELIVISURE Contents of this file is to implement the one that contents of this file is to implement the one that contents of this file is to implement the one that contents of this file is to implement the one that contents of this file is to implement the one that contents of this file is to implement the one that contents are provided to allow: Final Restore Statistical Statistics Statistics Compositions on the contents of the contents of the contents of this file is to implement: Restore 19 Restore 29 Restor	* RunTrail Set drive concurrency for trail restore.	101	#include <sys types.h=""></sys>	8 5	
### RESUMBIVIT.C (c) 1999,1999 by EMC Corporation. #### Restored to the Outroit execution of work item restores for the Like of the Intervence of the Control execution of work item restores for the Likeacce for Likeacce f	* TrailRestoresLeft)	99	#include cave/time hy	ř	
ESIMISTIC Corporation. Second Corporation	* SecQuitFlag == FALSE &&	98	*/	32	
### RESUMBIVE C. 1998, 1999 by EMC Corporation. Figure 1 Figure 2 Fi	* while (drive available &&	97	* System headers.	5	
### REPORT OF THE PROPERTY OF	* TrailRestorestanting;	9 9	/*	36	
RESIMISTIC CONTROLLED TO THE LINE OF THE LINE CONTROLLED CONTROLLE	EndTrailRestore(prevTrailQueue)	94			
### RANDALE CONTROLLED BY THE PROPERTY OF THE	* @lse RunNewTrailRestore	93	#define _POSIX_SOURCE 1	27	
RESINISVIC.C () 1995,1999 by EMC Corporation. RESINISTIC C Add to Crail restores. RESINISTIC C	* StartWIRestore	2 2			
Salivisyr.c	<pre>* if('IralikesCoreHasmoreWorkIcems & Secunitriag == kauss) * while OKTORINGIFOrTrail</pre>	9 9			
RESINISURGE RESINISURGE RESINISURGE RESINISURGE RESINISURGE RESIDENCE RESINISURGE RESIDENCE RESI	* Add to TrailQueue	89	***************************************	24	
### RANDOLOGY SECTION COMPOSED TO A PROPERTY OF THE PROPERTY O	* if(OKtoReschedule && SetQuitFlag == FALSE)	80		23	
RESIMISURE. RESIMISURE RESIDENCE COMPORATION. RESID	* if(Wifailed)	87 8	** which will affect this header.	221	
RANDOLOGIA RESIDENCE RANDOLOGIA RAND	* Drain progress.			20	
RELIMISTIC RELIMINATION RELIMINATION	* interperate return.	84	**	19	
RESUMBING: C. 1938, 1939 by ENC Corporation. 101 1938, 1939 by ENC Corporation. 102 1938, 1939 by ENC Corporation. 103 1938, 1939 by ENC Corporation. 103 1938, 1939 by ENC Corporation. 104 1938, 1939 by ENC Corporation. 105 1938, 1939 by ENC Corporation. 105 1938, 1939 by ENC Corporation. 105 1938, 1939 by ENC Corporation. 106 1938, 1939 by ENC Corporation. 107 1938, 1939 by ENC Corporation. 108 1938, 1939 by ENC Corporation. 108 1938, 1939 by ENC Corporation. 109 1938, 1938 by ENC Corporation. 109 1938, 1939 by ENC Corporation. 109 1938, 1938 by ENC Corporation. 109 1938, 1938 by ENC Corporation. 100 1938, 1938 by E	* for each WI that completes	8 8		100	
RELMISUT.C (c) 1998,1999 by EMC Comporation. (d) (e) (fight) 1998 by EMC Comporation. (e) (fight) 1998 by EMC Comporation. (fight) 2998	* SetQuitFlag = TRUE	9 82	** RunWorkTrompostoros()	17	
RESUMESTIC CONTROLLED FOR THE PROPERTY OF THE PROPERTY OF THE LIFE OF the I Status and For the Life of the I sectore on the contents of this file is to implement the contents of the contents of this file is to implement the contents of the conten	Send WICancells	80		15	
RESUMISVIC. (a) RANDOCLIFURAGE TORUS (b) RESUMISVIC. (c) 1998,1999 by EMC Corporation. (d) Set the number of drives being used for the life of the I set of the Corporation. (e) Set the number of drives being used for the life of the I set of the I	* if(ObitTest)	79		1 5	
RESUNISVIC COMPONENTION. RESULTANCE CONTINUENCE CONTI		77		12	
Page 130 HB Wed An IZ2 1632710 2008 A RumborkItemBestores (a) RumborkItemBestores (b) Reconstruct of drives being used for the life of the restores a second set (# of trail restores) (c) 1998,1999 by ENC Corporation. (a) Set the number of drives being used for the life of the restores of the contents of this file is to implement the restores and the contents of this file is to implement the contents of the contents of the restores of	* StartWIRestore	76	Service Library.	=	
Region Wed an IZZ 1632710 2008 Wed an IZZ 1632710 2008 Region Reg	* while OKTORUNWIFOrTrail	75	The second control of		
### 1908 Wed An IZ2 1632710 2008 #### 1821 Wishing To Composation. ###################################	* RunTrail Set drive concurrency for trail restore.	2 2	** The intent of the contents of this file is to implement the	9	
Fage 130 Res	* while drive available.	72	dina	a -1	
Page 130 fe8	* TrailRestoresRunning = 0;	70		e,	
RSLWisvr.C (4) 4 Walking 2 1632/10 2008 Walking 1	PALSE	n on	** Copyright (c) 1998.1999 by RWC Corporation		
Fage 13 or 88 Wed Jan (02 16 327 to 2008	of drives being used for the life	67	File Name:	3	
Page 13 of 68 Wed Jan 02 16:32:10 2008		. 65			
Page 13 of 68 Wed Jan 02 16:32:10 2008		6	/xxxx++xx+++++++++++++++++++++++++++++	1	
		Wed	Wed Jan 02 16:32:10 2008 Page 13 of 68	v Dew	

Page 16 of 68 RSLwisvr.c 4 Wed Jan 02 16:32:10 2008	Page 1		Page 15 of 68
	249 2	int HighestActiveTrail = 0; /* The trail queues are ordered from 1 to n. */	189 1
	247 3		
"Internal error: Cannot activate trail gueues(1) for trailid %d, cannot continue.",		int CountDrivesAvailable; /* The count of drives available, */ int CountDrivesInUse = 0; /* The count of drives in use, */	185 1
(void) rbe_user_error(0,	244 3	/* The number of trail restores total. */	
&temp_status))	243 2	<pre>int TrailRestoresTotal;</pre>	183 1
if(0 = ActivateTrailQueue(HighestActiveTrail,			182 1
* determine the work item restores to run. */	239 2	int TrailRestoresRunning = 0; /* The number of trail restores running: */	181
" ACCIVACE THE ITALL Queue. This allows the trail! queues to be used to	2 86.2		179 1
	237 2	boolean_ty QuitFlag = FALSE; /* Has the user requested a guit.*/	
HighestActiveTrail++;	235 2		
int submit@iememiciD = 0;	233 2	int int (*CancelRestores(int SubmitObiect, boolean tv (*CancelRestoreTest)(
		A DOUGHER . ALL D AND BROWNERS	
(FALSE == Quitriag))	230 1	* Darring . Sar O for emorphs	
(HighestActiveTrail < TrailRestoresTotal) &&	229 1	* CancelRestoreTest().	171
while((CountDrivesInUse < CountDrivesAvailable) &&	338	* Args:	169
QuitFlag = CancelRestoreTest();	226 1	* KUNS A SOC OF WOLK ICHNI IESCOIES.	168
~	224 1	the state of social transporters	166
* restores started.	223 1	/* * RunWorkItemRestores()	164
* This is the great to loop to get the initial work item	221 1		.02
TEREFORD CONTRACTOR	220 1	int *CountDrivesInUse);	161
"DEBUG: RunWorkItemRestores for %d trails.",		boolean_ty (*CancelRestoreTest)(),	160
	217 2	CONWOIKITENIRGSCOFESFOIIFAII(CONSC INC FEATIEF)	
if(debugmode)	215 1	static int	157
		wi_restore_results *results);	156
CountDrivesAvailable = DetermineGlobalDriveUse(/*SubmitObject*/);	213 1	HandleWorkItemRestoreResults(int FromFD,	_
TrailRestoresLeft = TrailRestoresTotal;	211 1	static int	
			-
return -1;	208 2	struct timeval *timeout);	149
queues, cannot continue.");		rd_set writerds,	148
(void)rbe_user_error(0	206 2	fd_set *readfds,	_
{ «conjacacua)/	205 2	Select(int nfds,	146
If(0 = GenerateTrailQueues(S		/* End Stubs */	
	200 1	SendRunningWorkItemsQuit();	
* in the order which the restores should run.	199 1	static int	240
		int *status);	138
/* GenerateTrailOueues()	196 1	FindTrailIDForWItem(int handle,	
<pre>(void)rbe_user_error(0, "DEBUG: Running RunWorkItemRestores.");</pre>	194 2	static int	
-		test_fd_hup(int fd);	133
(Final) romada)	103	779717	
/* This is the highest trail running "/	190 1	static int DetermineGlobalDriveUse();	129
			-

68 RSLwisvr.c 4 Wed Jan 02 16:32:10 2008	Page 16 of 68	RSLwisvr.c3 Wed Jan 02 16:32:10 2	Page 15 of 68
return -1;	24B 3	<pre>int temp_status; int HighestActiveTrail = 0; int HighestActiveTrail = 0; /* The trail queues are ordered from 1 to n. */</pre>	1 881
"Internal error: Cannot activate trail queues(1) for trailid %d, cannot continue.", HighastactiveTrail);	246 3	int CountDrivesAv4ilable; /* The count of drives available. */ int CountDrivesInUse = 0; /* The count of drives in use. */	186 1
<pre>{ (void)rbe_user_error(0,</pre>	244 3	/* The number of trail re	
tello - Andronomica (include control c	242 2	/* The number of trail restores left. */	183 1
	239 2	<pre>int TrailRestoresRunning = 0; int TrailRestoresLeft. /* The number of trail restores running. */</pre>	181
/* * Activate the Trail Queue. * Activate the Trail This slipes the trail queues to be used to	237 2 238 2	boolean_ty QuitFlag = FALSE; /* Has the user requested a quit.*/ boolean_ty SentQuit = FALSE; /* Have we initiated the quit. */	178 1
HighestActiveTrail++;	235 2	<pre>RunWorkItemRestores(int SubmitObject, boolean_ty (*CancelRestoreTest)())</pre>	-
int submitobjID = 0; int submitelementID = 0;	232 2		
while((Countly westings < Countly Vesavaliate) «* (Highestactive Trail < TrailRestores Total) && (FALSE == QuitFlag))	228 1 229 1 230 1	SubmitObject CancelRestcreTest(). Returns it (for success	170
QuitFlag = CancelRestoreTest();	226 1	* Args:	168
	1 827	* Runs a set of work item restores.	166
* This is the start up loop to get the initial work item * restores started.	222 1	/* RunWorkItemRestores()	164
	220 1	int *CountDrivesInUse);	162
(VOIG)IDE_USET_error(U, DEBUG: RunWorkItemRestores for %d trails.",		const int CountDrivesAvailable, boolean_ty (*CancelRestoreTest)(),	159
An incompliant control of		RunWorkItemRestoresForTrail(const int TrailID,	
if (debamonode)			156
CountDrivesAvailable = DetermineGlobalDriveUse(/*SubmitObject*/);	213 1	HandleWorkItemRestoreResults(int FromFD, int *TrailID,	
TrailRestoresLeft = TrailRestoresTotal;	211 1	static int	
	208 2 209 1	struct timeval *timeout);	150
"internal error: Cannot generate trail "internal error: Cannot continue.");	207 2	fd_set *exceptfds.	148
(void)rbe_user_error(0,	206 2	fd_set *readfds,	147
& temp_status))		static int	105
<pre>if(0 != GenerateTrailQueues(SubmitObject,</pre>		/* End Stubs */	143
9	199 I 200 I	<pre>static int SendRunningWorkItemsQuit();</pre>	140
/* GenerateTrailQueues() * Buckets the work items into trail queues. The trail queues are sorted	198 1	FINITE TRANSPORMED THE TRANSPO	137
<pre>(void)rbe_user_error(0,</pre>		static int	135
if(debugmode)	192 1	static int test_fd_hup(int fd);	132
/* This is the highest trail running "/	1 061	<pre>static int DetermineGlobalDriveUse();</pre>	130



	West less on to conce	The second second second	Wed is no 18-20-10 2000	1
&TrailID,	÷	369 5 370 6	fds, cannot continue.");	
ults(index,	if(0 != HandleWorkItemRestoreResults(index,		(void)rbe_user_error(0,	303
estore_results));	<pre>memset(&results, 0, sizeof(wi_restore_results));</pre>	365 5	<pre>if(0 != getFromSet(&WorkItemFromFds, &HighestFd, &retStatus))</pre>	2 TOT 2
	int Trailibring in the Trailbring in the Trailbring in the wirestore results results; FoundFds++;	362 5 363 5	SendBunning@oxKItemmQuit(); SentQuit = TRUE;	297 3 298 3 299 2
35))	<pre>int StartWorkItemforTrail = 0; if(FD_ISSET(index, &WorkItemFromFds)) (</pre>		<pre>(void):De_log_stats(0,</pre>	
outurus < keauyrus/;	(index++) (index++)	355 3	if((QuitFlag) && ((SentQuit))	292 2 293 3
	for(index = 0;	353	struct timeval timeout = (5, 0);	290 2
	QuitFlag = CancelRestoreTest();	351 3	fd_set WorkItemFromFds;	
re. We should	* schedule the next work item restore. We should * check if the user initiated a quit.	348	wbile(1) (int Hidbested = 0:	285 1 286 2
may want to	* If there are available for then we	346 3) /* End while() initial startup loop */	
	\$ SMOTET CHILL TOTAL (10)	344 3	TrailRestoresRunning++;	281 3
ready to read are ",	DebugLogFds("The file descriptors ready to read are ",	342 4	if(temp_status > 0)	
	if(debugmode) {	340 3	*/	278 2
	index;	338 3	<pre>/* more work may be need to recover from this error condition.</pre>	
	<pre>int ReadyFds = retStatus; int FoundFds = 0;</pre>	336 3	(void) rbe_log_stats(0, "Trail %d restore had no work item to run(275 3
	else (/* Available fds */	333 2 334 3	if(temp_status == 0)	273 2
	3	331 2		
	QuitFlag = CancelRestoreTest();	329 3	/* RunWorkItamRestoresForTrail does its own error logging. */	269 3
	<pre>(/* timed out */</pre>	327 3	&CountDrivesInUse)))	260 2
			CancelRestoreTest, &QuitFlag,	
	return -1;		CountDrivesAvailable,	264 2
"Internal error: Cannot get auxproc result fds, cannot continue.");	'Internal erro	321 3		263 2
{(errno),	<pre>(/* error */ (void)rbe_user_error(RBRECOVER_MKERR(errno),</pre>	320 3	if (0 > (temp_status = RunWorkItemRestoresForTr	262 2
J 8"		317 2 318 2) return	259 3
* 1, Yomrds,	<pre>#endif if(0 > (retStatus = Select(HighestFd + 1,</pre>	314 2	<pre>(void)rbe_user_error(0,) for trailid %d, cannot continue.', HighestActiveTrail);</pre>	
o wait on are ",	hebughogros ("The file descriptors to wait on are &WorkStemFromFds);	312	<pre>if(0 != SetTQDrivesAcquired(HighestActiveTrail, 1, &temp_status))</pre>	255 2
	11 (debugmode)	310 3		
	#IR O	308	* i a The count of running work item works ago	252 2
	306 3 return -1;	306		251 2

RSLwisvr.c 8 Wed Jan 02 16:32:10 2008	Page 20 of 68	RSLwisvr.c.7 Wed Jan 02 16:32:10 2008	Page 19 of 68
	483 9		430 /
if(temp_status > 0)	487 B	return -1;	429 8
return -1;	80 9	deactivate trait queue for traitio %d, cannot continue, Traitib);	
rk item to		"Internal error: Cannot	00
"Internal error: Trail %d	979 9	(void)rbe_user_error(0,	426 8
(void)rbe log stats(0.	978 9	trio - peacetracetratiQueue(tratiti) &cemp_acacus/)	425 8
* restores.	476 9	ATO I DOMESTICATION OF THE PROPERTY OF THE PRO	
* error if a trail queue had no work item	475 9	TrailRestoresLeft;	
* work items here. This would be an internal	474 9	TrailRestoresRunning;	921 7
* Should attempt to run the next trails	473 9		
/* The third flooring to the training to	471 9	If ((0 == W1COUNE) && (0 == STARTWORKITEMIORIFALL))	418 6
if(temp_status == 0)	470 8		
	469 8	*/	
return -1;	468	* For this trail.	415 0
/ * RUNWORKICEMERES CORES FOR LUNGS ILS OWN LOGSING.	467 9	/* That ing for Mo work items left running or started	413 6
	466 9	TrailID, wiCount);	412 7
&CountDrivesInUse)))		but %d wiCount workitem still running.",	
	465 8	more work items left for trailed %d .	11.1
&OuttFlag,	464 8	(void)rbe_user_error(0,	410 7
CancelRestoreTest,			
	463 8	if(debugmode)	408 6
CountDrivesAvailable,	462 8	return -1;	
HighestActiveTrail,			
if (0 > (temp_status = RunWorkItemRestoresForTrail(461 8	number of running work items for trail, cannot continue.");	409
	409 0	(voru)rbe_user_error()	405
return -L/			402 7
HighestActiveTrail);	457 9	if(0 != GetRunningWI(TrailID, &wiCount, &temp_status))	401 6
drive acquired(2) for trailed %d, cannot continue.",			
"Internal error: Cannot set	456 9	int wiCount;	
(void)rbe user error(0,		*	397 5
HighestActiveTrait, 1, acemp_Scatus//		* this trail	
if(0 != SetTQDrivesAcquired(453 8		
		* lets check to see if this is the last work item	395 5
	451 8	/* 0 work items started aboved,	394 5
return -1:	450 9	olio it (Gristiantiantiantiantiantiantiantiantiantian	
accivate trail queue(z) for traille se, temmot containes ,			
"Internal error: Cannot	448 9	return -1;	
(void)rbe_user_error(0,	447 9	<pre>/* RunWorkItemRestoresPorTrail does its own logging. */</pre>	389 6
	446 9		388 6
&temp_status))	445 00	&CountDrivesInUse())	387 5
<pre>if(0 != ActivateTrailQueue(HighestActiveTrail,</pre>	443 8	CancelRestoreTest,	385 5
		CountDrivesAvailable,	384 5
HighestActiveTrail++;	442 8		383 5
	439 8	if (0 > (StartWorkTtemforTrat) =	200
(CountDrivesInUse < CountDrivesAvailable))			
(HighestActiveTrail < TrailRestoresTotal) &&		CountDrivesInUse;	379 5
if ((0 != TrailRestoresLeft) &&	436 7		37.3
*/	,	* Based on if it passes or fails	376 5
* drive available the next trail restore will be	434 7	* This is where we may want to retry the Work Item	375 5
If we have		/*	374 5
* From the appropriate for the created trail	3	recurr -L;	372 6
/* This test is to determine,	432 7	*/	
		/* HandleWorkItemRestoreResults will do its own logging!	371 6
RunWorkItemRestores Wed Jan 02 16:32:10 2008	Page 20 of 68	68 RunWorkItemRestores Wed Jan 02 16:32:10 2008	Page 19 of 68

Wed J	519 1 520	516 2		508 2 509 3 510 3	507	498 499 501 501 504 2	496	493		488	486	48 6	Wed
Wed Jan 02 16:32:10 2008	return 0;	(void)rbe_log_stats(0)					2) /* else Available fds */	} /* end for() */		, ,	9	and the	Jan 02 16:32:10 2008
RSLwisvr.c 9		ts(0, "Restore was quit by user. Work item restore quit.");) /* end while(i) */ if((0 == TrailRestoresRunning) && (SentQuit))	:toresLeft))	if(((0 == TrailRestoresRunning) && (SentQuit))	*Terminate the loop if either 1) Sont the work teems the guit AND NO Trail restores a running. 2) No more Trail restores are left.	ble fds */	*/		and a state of the property of the state of	*/)" in at least on work item was started for this " then we have started a new trail.	RunWorkItemRestores
Page 21 of 68		store quit.*);										trail,	Page 21 of 68
Wed Jar				546 1 547	544 1	536 1 537 2 538 2 539 2 540 2 541 2	534 1	532	528	5 6	524	522	Wed Ja
Wed Jan 02 16:32:10 2008 RS				return retSelect;	} while ((-1 == retSelect) && (EINTR == errno));	do { retSelect = select(nfds, fds, writefds, writefds, exceptfds timeout);	int retSelect;	fd_set *exceptfds, struct timeval *timeout)	Selectint nfds, fd_set *readfds, fd_cat *readfds,	0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	InterpretWorkItemRestoreResults();	/* Functions needed	Wed Jan 02 16:32:10 2008
RSLwisvr.c 10 Page 22 of 68					EINTR == errno)););		Select Page 2
2 of 68													Page 22 of 68

of 68 HSLwisvr.c 12 Wed Jan 02 16:32:10 2008	Page 24 of 68	68 HSLWISVIC 11 Wed Jan 02 16:32:10 2008	Page 23 of 68
		We need to close is not being use here we will have we won't be able work item complet	606 1 607 1 609 1 610 1
) /* InitiateWorkItemRestore() */	660	/* Scarruphuxprocess does its own logging. */ return -1 ,	602 2 603 2 604 1
return 0;	658 1	<pre>if(E_SUCCESS != StartupAPResults) (</pre>	600 1
return -1;	656 2	<pre>port to connect."); </pre>	596 2 597 2 598 1
<pre>KillWorkItemRestore{ AuxprocVitals.xp_pid, AuxprocVitals.xp_fd_to_x);</pre>	653 2	"Internal Error: Could not get Remote Client name k "	595 2
deleteHandleSet(AuxprocVitels.xp_fd_from_x, EndTime, EP_RB_RECOVER_ALLFAIL, &status);	651 2	else	592 1
time (&Endrime);	648 2 649 2	clientName, clientPort);	589 2 590 2
Abyyou an encore was a strong and that we already know there was an error and that is why we are doing this right now.		startuparmesurts = startupauxprocess(v /* xxx */; AP_env; AP_env;	588 2
if errors		&SOSTATUS (584 1
* the following code kills auxproc when recx or xcpio do not start * we do not want an auproc sitting around.			587 1
/* SubmitElemID);		<pre>if (E SUCCESS == GetSERcmdConnect(SubmitObjID,</pre>	
<pre>(void) FDe_user_error in StartWorkItemRestore SubmitObjID %d,"</pre>	640 2	return -1; variables.");	577 2 578 1
* StartWorkItemRestore does logging if initialization fails		(void) rbe_user_error(0,	575 2
()	636 2	&SOStatus))	573 1
SubmitObjID, SubmitElemID))	634 1	Sjunk_argv, She env,	572 1
<pre>if(0 > StartWorkItemRestore(rcp,</pre>	633 1	*/ if(E_SUCCESS != GetSOExecutionPhase(SubmitOb)ID, inch executable, 1024,	569 1
	628 2	time I Endrime: / Lacts see if there are any environment variables to set. / Lacts see of the output variables are improved. * The restore of the output variables are improved.	565 1 567 1
(void)rbe_user_error(626 2	<pre>cher clientName(256) = ""; int clientPort; int status</pre>	562 1
StartTime, &TempStatus))	624 1 625 1	cher **AP_env = NULL; int SOstatus;	560 1 561 1
SubmitElemID, Auxorocvittals.xp.pid,	622 1	char junk_executable[1024]; char **junk_executable[1024];	558 1
<pre>if(0 != newhandleset(Auxprocvitals.xp_fd_from_x,</pre>	618 1	<pre>struct auxproc AuxprocVitalis; eerrno_ty %rartupAPResults = EXIT_FAILURE; time_t StartTime;</pre>	554 1 556 1
time(&StartTime);	616 1	const int SubmitElemID)	310
close(AuxprocVitals.xp_fd_bulk_to_x);	614 1	eperrno InitiateWorkItemRestore(const int SubmitObiID.	550
1/	612 1		
4 of 68 InitiateWorkItemRestore Wed Jan 02 16:32:10 2008	Page 24 of 68	of 68 InitiateWorkItemRestore Wed Jan 02 16:32:10 2008	Page 23 of 68

RSLwisvr.c 14 Page 26 of 68	Wed Jan 02 16:32:10 2008	Wed Ja	RSLwisvr.c 13 Page 25 of 68	Wed Jan 02 16:32:10 2008	Wed Ja
		785 2			
	if (ret := 0)	784 1			725 1
				_	724 2
	TDTT100++.	283		continue;	723 3
١.		791 1		test fd(FromFD):	722 3
apraincedit,		700 1		sleep(1):	
WHALE AS :- AFEC - POSSEGNATION OF CHIEFORD,	Attito to Tall	770 1		-	
	- 10 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			esse	719 2
	-	776 1		DI BOX	
	return -1;	775 2		hwork.	017
descriptors for work item, cannot continue.");			cic_sec == TRUE)	Tr(resurrs->rocar_extr_sec ==	7 2 2
Internal error: mismat		774 2			
_error(0,	(void)rbe_user_error(0,	773 2		*/	713 2
	(.	772 2	prectly.	 is not started correctly. 	712 2
FromPD)	if(FromFD != getFromFD)	771 1	* be set. For example if the remote command	* be set. For examp	711 2
	>	770 1	t are not always going to	/* The remote result	
	return -1:	769 2			
				,	708 0
descriptors for work item cannot continue "):		7 101	= IROB;	Gover - dobingudanta	700 4
"Internal error: Could not get auxnroc file	(ACTO) TOG NORTH (ACTO)		- dollar	fromphilandin	
	(mid) who may	765 2	Trompil) == L)	in (rest_rd_nup(FromFD) == 1)	
FromFD, &ToFD, &getFromFD, &ProgressFD, &TempStatus))	***				703 3
eSet(if(0 != getHandleSet(764 1	esultsStatus)	if(0 == GetAuxprocResultsStatus)	702 2
					701 2
	-	762 1		return -1:	700 3
	return -1;	761 2	(void)rbe user error(0," Error in GetAuxprocResults");	(void) rbe user erro	699 3
for work item, cannot continue.");			/* GetAuxprocResults() does its own logging */	/* GetAuxprocResul	
Internal		759 2		^	696 3
_error(0,	(void)rbe_user_error(0,		ResultsStatus)	if(-1 == GetAuxprocResultsStatus)	695 2
	(.	757 2			
<pre>if(0 != getPID(PromFD, &AuxProcPid, &TempStatus))</pre>	if(0 != getPID()		GetAuxprocResultsStatus = GetAuxprocResults(FromFD, results);	GetAuxprocResultsSta	693 2
	,			while(! (fromFDHangUp))	
	return -1;	753 2			
			ogressFD = -1;	ToFD = getFromFD = ProgressFD = -1;	689 1
work items for trail, cannot continue.");					
"Internal error: Could not decrement running		751 2	Hangun = FALSE:	boolean ty fromFDHangUn = FALSE:	687 1
error(0.	(wold) the user error(0		to true 3 parando	unsigned Long Jobstat;	685 1
II(U := Decrementsumingwit-indilin, emicount, eighbreche//	II(U := Decremen			time_t EndTime;	684 1
The state of the s			ProgressFD;	int ToFD, getFromFD, ProgressFD	683 1
	_	746 1		int AuxProcPid;	682 1
	return -1;	745 2		int wifount:	591 1
IIIIIBIBO WOIK ICEM, CAMBOC CONCINCE:);				int Drainesur;	2 6/10
'Internal error: Could not find trail id for		743 2			678 1
c_error(0,	(void) rbe_user_error(0,		Status;	int GetAuxprocResultsStatus;	677 1
and State and the state of the		741 2		int retries = 0;	676 1
if() := pin/TrailOneneOfWI(PromPD TrailID &TempStatue))	iff() = FindTra	740		int yet = 0:	67% 1
	*	738 1	wi_restore_results *results)		673
0.	* the meanwhile.	737 1	int *TrailID,		672
/* Lets give the progress thread a chance to drain keeping busy in	/* Lets give th	736 1	sults(int FromFD,	HandleWorkItemRestoreResults(int FromFD)	671
	return -1;	734 2		0 10 10 10 10 10 10 10 10 10 10 10 10 10	620
				'	899
incernar error: courd not push drain."):		32	ogiess for work frem.	* Delete the handle set.	663
r_error(0,	(void)rbe_user_error(0,	731 2	Drain progress.	* Drain progress	665
	-		eturn.	* interperate return.	664
if(0 != PushDrainRequest(FromFD, &TempStatus))		729 1			663
	Cime(wandrime);	12/ 1			
190 00 00	the state of the s				
O D D STANDARD LINES CHICAGO STORE COLOR C	AAAA 10.95 10.95 10 5000	Wed	nandeworktemnestorenesuits Page 25 of 58		

Page 28 of 68 HSEWISVECTS Wed Januar 15:32:10 2000	BS wear 6 15 West lan 02 18:32:10 2008	Dece 27 of 69
70	&winame,	849 2
	rc = getHandleSetInformation(FromFD, &templateName,	845 2
	char *trailsetName=NULL;	
	char "winame=NULL;	844 2
	int re=0;	
) /* End HandleWorkItemRestoreResults() */	status=0;	
return 0;	899 1	N
	<pre>if((0 != results->remote_exit_status) (0 != results->local_exit_status))</pre>	838 1
results -> remote_exit_set) ? "TRUE": "FALSE");		836 1
A CONTRACT OF THE PARTY OF THE	JODSTAT = EP_KB_RECOVER_CULENTEALL;	
results -> local_exit_set) ? "INUE": "FALSE"		-
	89) 2	831 2
AuxProcPid, results -> local_exit_status,	168	30 3
PID %d) results are local: %d: setP:%s remote: %d set:%s.	jobstat = EP_RE_RECOVER_SERVERFALL;	828 3
<pre>(void)rbe_user_error(0,</pre>	generic server failure, unless client failed too */	827 3
N Property L		825 2
*TrailID,		824 3
AuxProcPid,	jobstat = EP_RB_RECOVER_SERVER_SIGPLIFE;	822 3
orn 3d) that finished for trailed %d work items left = %d.",	->local_exit_status)	821 3
(void)rbe_user_error(0,	sigpipe */ 883	819 2
if (debugmede)	881	18 2
close(ProgressFD);	for signal termination vs all generic failures */	17 2
close(FromFD);	CARR XG EXIT STOPPED: /* treat like signal */	815 2
Close (ToFD):	T_STDERR_FAIL;	814 2
	CORSE SPEXIT_REMOTE_STDERR_FAIL: 875 1	813 2
return -1;		11 2
"Internal error: Could not Kill finished	OVER_FEWFAIL; 873	810 2
(void)rbe_user_error(0,	Dreak; 672 2	0 0 0
	VER_MANYFAIL;	07 2
-1 /* Hack this arg is not needed yet cmd to */))	case XG_EXIT_MANUFAIL:	805 2
<pre>if(0 != KillWorkItemRestore(AuxProcPid,</pre>	OVER_ALLFAIL;	04 2
-	case XG_EXIT_ALLFAIL:	802 2
	8)	01 1
"Internal error: Could not delete Hendle Set, cannot continue.");	*/ (f() = results=>local exit status) /* use local error, if any */	98
	to an eperrno value:	797 1
if(0 != deleteHandleSet(FromFD, EndTime, jobstat, &TempStatus))	and remote error statuses	96 1
_	859	794 1
	fire? Diocross for sort from XXX	192 1
free(template	1 ACCUALL T. 1 855 2 856 2 856 2	790 1
"top level object: %s, templace %s.", STR_SURE(winame),	853 2	
rbe_log_stats(0, "Restore Failure of "\	(void) the user_error(), "Internal error: Could not pop drain results, 881 2 cannot continue."); 882 2	786 Z 787 Z

			W-1 00 40:00:40 0000
		if(temp_status != 0)	964 2
		<pre>temp_status = InitiateWorkItemRestore(</pre>	962 2
		<pre>if((-1 == popResults) && (SCHED_NO_MORE_JOBS == temp_status)) { return CountOfWorkItemNestoreStarted; }</pre>	957 2 958 3 959 3 960 2
			955 2
) /* RunWorkItemRestoresForTrail() */	1014	return -1; trail queue, cannot continue.");	
)	1012	(void)rbe_user_error(0, "Internal error: Cannot non work item off	952 3
break;	1010	(SCHED_NO_MORE_JOBS (= temp_status))	950 2
	1009	&temp_status)]) &&	
containe)	1007	relie - propossure - repair-commissariguses (section technology)	
	1005	3f(10 - (DonDoor) to - DonBillyon-Traillonero(Dresilin	
<pre>if((DriveAcquiredForTrail < DriveConcurencyForTrail) && ((*CountDrivesInUse) < CountDrivesAvailable) && (FALSE == *QuitElag))</pre>	1002	(*CountDrivesInUse)++;	
*QuitFlag = CancelRestoreTest();	1000 2	while(1)	940 1
return -1;	997	int CountOfWorkItemRestoreStarted = 0;	937 1
concurrency, cannot continue.");			936 1
(void)rbe_user_error(0,	995	int submitelementID;	934 1
,		int submitObjID;	933 1
ALIV :- Get. Karive Concurrency (IIIIII) & temp status)	992 2	int DriveAcquiredForTrail; int DriveAcquiredForTrail;	930 I 931 I
		int *CountDrivesInUse)	929
recurn -1)	989 2	boolean_ty 'QuitFlag,	928
		const int CountDrivesAvailable,	926
acquired, cannot continue.");	,00	RunWorkItemRestoresForTrail(const int TrailID,	925
(void)rbe_user_error(0, "Internal error: Cannot get drives		87 P	923
«celling_scacus))	984 3	* recurried.	921
		* if 0 or greater then the number of trail restores started will be	920
<pre>if(0 != GetTQDrivesAcquired(TrailID,</pre>		* if -1 then an error has occurred.	919
CountOfWorkItemRestoreStarted++;	979 2		917
-		* (0) CountDrivesInUse The count of trails in use by restore.	916
return -1;	976	* (I) CountDrivesAvailable the total drives available to restore.	910
running work items for trail, cannot continue.");	973	* (I) TrailID The id for this trail.	913
(void)rbe_user_error(C		e Avere.	911
<pre>1</pre>	972	* will can be supportted.	910
		* This function starts all the work item for the	806
zecurn -1;	970	* Description	907
		* RunWorkItemRestoresPorTrail()	206
<pre>/* InitiateWorkItemRestore() does its own logging */ (void)rbe_user_error(), "Error in InitiateWorkItemRestore," submitob)ilp %d. submitedement[D %d", submitob)ilp. </pre>	966 968		904
	965 3		

ъ	ע ע ני	eeee		
Page 31 of 68	1003) L. 1003 (1019 1020 1 1021 1 1022 1	.018	age 3
of 68	FROUTH MAXIMF;	static int Det (/* Limiting to * to do this	/* Stub */	Page 31 of 68
RSLwisvr.c 19	7.	static int DeterminedlobalDriveUse() { /* Limiting to MAXINT === not limiti * to do this properly. This should		DetermineGlobalDriveUse
19		static int DeterminedlobalDriveUse() /* Limiting to MAXIV" == not limiting Need resource management * to do this properly. * To do this properly.		alDriveUse
Wed Jan 02		ed resource ma		Wed Jan C
Wed Jan 02 16:32:10 2008		nagement estore does.		Wed Jan 02 16:32:10 2008
Page 32 of 68	1007 2 10	1030 1		Page 32 of 68
of 68	re + 1	int *APlist; int count; int status; int index;	static int SendRunningWorkItemsQuit()	2 of 68
RSLv	JURE PRINCE PRI	-	rkItemsQuit(SendRunni
RSLwisvr.c 20	<pre>[f(0 != getPIDList(&count, &APlist, &status)) (void)rbe_user_error(0,</pre>			SendRunningWorkItemsQuit
	or: Cannot (
Wed Jan 02 16:32:10 2008	<pre>(cotd)rbe_mest_error(0,</pre>			Wed Jan 02 16:32:10 2008
10 2008	us.");			:10 2008

Wed Jan (1054 In 1055 1 { 1056 1 1057 }	1050	Wed Jar
Wed Jan 02 16:32:10 2008		InterpretWorkItemRestor { return 0; }	/* * Scub this out for now. */ static int	Wed Jan 02 16:32:10 2008
RSLwisvr.c 21		InterpretWorkTtemRestoreResults(wi_restore_results *results) (return 0; }	w.	InterpretWorkItemRestoreResults
Page 33 of 68		ults)		Page 33 of 68
Wed Jan	1000 1 1 1000 1 1 1000 1 1 1000 1 1 1000 1 1 1 1000 1 1 1 1000 1 1 1 1000 1	1063 1 1064 1 1065 1	1060	
Wed Jan 02 16:32:10 2008 RSLwisvr.c 22	<pre>for(index=0); index=1) index=1) int size = uprinef(bufpet; '%d, '.index); int size = uprinef(bufpet; '%d, '.index); intper=== size) intper=== size) bufper=== size) inter=== size) inter=== size bufper=== size) inter=== size bufper=== size) inter=== size bufper=== size bufper== size bufper=== size buf</pre>	int index, fd_count = 0; char buffer(4096); char 'bufptr = (char')buffer;	<pre>static void DebugLogPds(char *error_msg, fd_set *fds)</pre>	Wed Jan 02 16:32:10 2008 DebugLogFds
Page 34 of 68				Page 34 of 68

Wed Jan 02 16:32:10 2008	of 68 ASLWISVI.c 24	Page 36 of 68	Wed Jan 02 16:32:10 2008	8 RSLwisvr.c 23	Page 35 of 68	-
	/* end test_fd_hup() */	1157)				-
	return 0;	1154 2				
	else	1152 1 1153 2				-
	return 1;					
	if(POLLHUP & fds.revents)	1148 1				
	return -1;					
	if(-1 == ret_poll) {	1143 1				
== errno));	} while((-1 == ret_poll) && (EINVAL == errno));	1141 1				
	<pre>do { ret_pol1 = pol1(&fds, 1, 0);</pre>	1137 1 1138 2 1139 2				
	<pre>fds.fd = fd; fds.events = POLLIN; fds.revents = 0; /* initialize */</pre>	1133 1 1134 1 1135 1				
	<pre>if(fd < 0) { errno = EINVAL; return -1; }</pre>	1127 1 1128 2 1129 2 1130 2 1131 1			100	-
	struct pollfd fds; int ret_poll;	1124 1		return ret_select;	P-4	
	static int test_fd_hup(int fd)	-		} while((-1 == ret_select) && (EINTR == errno));	۳	
	*/	1119	kread_fd, NULL, NULL, &timeout);	<pre>ccc { ret_select = select(fd + 1, &read_fd, NULL, NULL,</pre>	1096 1	
	* 1 for HUP event received on fd. * 0 No HUP event received on fd.	1116		FD_SET(fd, &read_fd);	H	
o check for the hang up conditio		1114		FD_ZERO(&read_fd);	1090 1	
e descriptor to see if		11110		fd_set read_fd; int ret_select;		
	* test_fd_hup()	1107		static int test_fd(int fd)	1085 St	
		1106				

Page 35 of 68

test_fd

Wed Jan 02 16:32:10 2008

Page 36 of 68

test_fd_hup

Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008
RSLwisvr.c 25	
Page 37 of 68	Page 37 of 68
Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008
RSLwisvr.c 26	
Page 38 of 68	Page 38 of 68

Page 39 of 68	Page 39 of 68
RSLwisvr.c 27	
Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008 Page 40 of 68
Page 40 of 68	Page 40
of 68 RSLwisvr.c 28	of 68
Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008

16:32:10 2008 FDMRESchedani cc 2	Wed Jan 02 16:32:10 2008	Wed Jan 02 16:32:10 2008 EDMRESchedApi.cc 1 Page 41 of 68	Wed Ja
		/*************************************	62
		char truet (cmplatename(FEMPLHANE_SIZE); boolean_ty_alternate; int int int crailnum; } findarg;	56 1 59 1
		seatic musiqued int numberOfQueues = 0; seatic musiques trailinies static pthread_mutex_t G_scheduleMtx = PTHREAD_MUTEX_INITIALIZER;	5 5 5 5 5 5
		#include <pre>#include <pre>#i</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	5 4 4 4 6
		#include <restore reprogmsg.h=""> #include <restore dispatch_daemon.h=""></restore></restore>	î î
		// Rogue News includes finclude cry/collect.b> finclude cry/cryfile.b> finclude cry/cryfile.b> finclude cry/cryfile.b> finclude cry/cryfile.b>	39 40 41
		#include eartdis.h> #include eartdypus.h> #include Spiftead.h>	3.3.3
		#include ceal/c_portable,b> #include ceal/g_popen.ib> #include ceal/jinout.b>	29 30
<pre>} pthread_mutex_lock(&G_scheduleMtx);</pre>	87 1 89 1 90 }	#if idefined(lint)	23 24 25 27
<pre>if (first == TRUE) { first = FALSE, pthread_mutex_init(&G_scheduleMtx, NULL);</pre>	86 2 2 P	appe. chang	19 20 21
static boolean_ty first = TRUE;	1 18	t axe run. Currently things are ordered by where they	110
static void LockScheduleMutex()	_	* Basic idea here: A few calls to manage the order in which work irems	16
	76	* Compile-Time Options:	15
***************************************		* Primary Data Acted On:	551
** Purpose: Lock the mutex for the handle tree object		* restores occur	E 15
** Return Codes: ** None	77 70	* Mission Statement: file that contains an API to manage the order	w 00
** Outputs: None		/* EDMRESchedApi.cc	~ 6
** Inputs: None			
** Routine: LockScheduleMutex **		** Copyright 1996,1997 EMC Corporation	J 2 .
Wed Jan 02 16:32:10 2008 LockScheduteMutex	Wed Jan	Page 41 of 68	Wed

Wed Jan 02 16:32:10 2008	EDMRESchedApi.cc 4	Page 44 of 68	Wed Jan 02 16:32:10 2008 Pa	EDMRESchedApi.cc 3	Page 43 of 68	Page
	<pre>*wi = ret -> getScheduledWI(3obID);</pre>	-	174			
3D;	<pre>if (ret == NULL) { *status = SCHED_TRAIL_LOOKUP_FAILED; UnlockScheduleMutex(); return -1; }</pre>		167 168 168 169 170 171 171 172			
	delete trl;	-	165			
ind(trl);	ret = (EDMRETrailList *) trailLists.find(trl);	-	163			
	LockScheduleMutex();	H	161			
	trl -> setTrailQID(ID);	-	159			
	if (trl == NULL) { *status = SCHED_NO_MEMORY; return -1; }	- 2 2 2 -	153 156 157			
	trl = new EDMRETrailList();	i-	151			
	<pre>if (wi == NULL) { *status = SCHED_BAD_PARAM; return -1; }</pre>	- 8 8 8 -	145 146 147 148			
	if (status == NULL) { return -1; }	140 1 141 2 142 2 143 1	14			
	EDMRETrailList *trl; EDMRETrailList *ret;	137 1	551			
EDMREScheduledWI **w1,	static int LookupSchedWI(int ID, int jobID, EDMRESche int *status)		130	pthread_mutex_unlock(aG_schedulewix);	-	112 1
		*	191	CHACCON CHACTER CONT.	^	110
********	***************************************		130	void	static void	108
based on the trail ID and the	** Purpose: Finds a scheduled work item based on the trail ID and the ** work item ID. **		******* 127 128			106
ero for failure	** Return Codes: ** int - 0 for success or non-zero for failure			Rurpose: Unlock the mutox for the handle tree object		102
function if an error occured put the pointer to the element	** Outputs: Int "status - status of the function if an error occurred set the EDMRESchedMT * * * * * * * *	-		** Return Codes: *** None		99 100
ociated with element ated with element	Inputs: int ID - trail object ID associated with element int jobID - wi job ID associated with element	: : :	119			3 3 8
	** Routine: LookupSchedWI **			Routine: UnlockScheduleMutex	:::	9 9 9
*****	/ *************************************			/++++**********************************		92

Page 43 of 68

UnlockScheduleMutex

Wed Jan 02 16:32:10 2008 Page 44 of 68

LookupSchedWI

Page 46 of 68	Wed Jan 02 16:32:10 2008 EDMRESchedApi.cc 6	Wed Jan	Page 45 of 68	EDMRESchedApi.cc 5	Wed Jan 02 16:32:10 2008	Wed Jan 02
	-	247				
	return 0;	246 1				
	*trl = ret;	244 1				
	return -1;	241 2				
	(*eration = COMPD TRAIT LOOKID PAILED.	239 2				
	delete tmptrl;	236 1				
	UnlockScheduleMutex();	234 1				
טי	<pre>ret = (EDMRETrailList *) trailLists.find(tmptrl);</pre>	232 1				
	LockScheduleMutex();	230 1				
	<pre>tmptrl -> setTrailQID(ID);</pre>	228 1				
	*status = SCHED_NO_MEMORY; return -1;	223 2 224 2 225 2				
	if (tmptrl == NULL)	222				
	tmptr1 = new EDMRETrailList();	220 1				
	<pre>*sratus = SCHED_BAD_PARAM; return -1; }</pre>	215 2 216 2 217 2 218 1				
	if (trl == NULL)	214 1				
	return -1;	211 2				
	if (status == NULL)	209 1				
	<pre></pre>	206 1				
t *status)	static int status) static int int "status) static int "status)	203				
	*	201				
	***************************************	200				
ul ID.	** Purpose: Finds a trail object based on the trail ID	198				
failure	** Return Codes: ** Int - 0 for success or non-zero for failure	196				
if an error occured	** Outputs: int *status - status of the function if an error occured	193			return 0;	184 1
	** Inputs: int ID - trail object ID	191)	182 1
	** Routine: LookupTrailObject			*status = SCHED_JOB_LOOKUP_FAILED;	*status = SC	
***	**				if (*wi == NULL)	178 1 179 2
*******		187		utex();	UnlockScheduleMutex();	176 1

LookupSchedWI

Page 45 of 68 Wed Jan 02 16:32:10 2008

LookupTrailObject

Page 46 of 68

of 68 EDMRESchedApi.co 8	Page 48 of 68	7 Wed Jan 02 16:32:10 2008	EDMRESchedApi.cc 7	Page 47 of 68	
	360 z				
if (winum <= 0)	359 1				
winum = ret -> newScheduledWI();	357 1				
* *status = SCHED_TMAIL_LOOKUP_FAILED; UnlockScheduleMurex(); Veturn 0;	351 2 352 2 353 2 354 2		return numberOfQueues;	je.	300
delete trl;			return 0;	H 9 1	
ret = (EDMRETrailList *) trailLists.find(tr1);	346 1	RT_FAILED;	'status = SCHED_TRAIL_INSERT_FAILED	0 10 5	294
LockScheduleMutex();	344 1		if (ret == NULL)	-	N
trl -> setTrailQID(ID);	342 1		UnlockScheduleMutex();	<u> </u>	290
recurn o;	340 1	Lists.insert(t1);	ret = (EDMRETrailList *) trailLists.insert(t1);	P	00 00
<pre>if (trl == NOLL) (*status = SCHED_BAD_PARAM;</pre>	336 1 337 2 338 2	enes);	<pre>t1 -> setTrailQID(++numberOfQueues); LockScheduleMutex();</pre>	ju su	286
	334 1		}	-	
			'status = SCHED_BAD_PARAM; return 0:	U 10 N	280
return 0;	330 2		if (tl == NULL)	J pr	
if (status == NULL)	329 1		tl = new EDMRETrailList();	per	276
EDMRETrailList 'ret; EDMREScheduledWI 'wi; int winum = 0;	325 1 326 1 327 1		return 0;	~ N N	
NewSchedWI(int ID, int Submillion)	322		if (status == NULL)	<u>-</u>	
int	321		EDMRETrailList *tl; EDMRETrailList *ret;		267 268 269
*	1		NewTrailObject(int *status)	Now	266
* * * * * * * * * * * * * * * * * * * *	317				
** trail 0 tree.	1	*****			
** Purpose: Creates a new scheduled work item element and	314	阿尔斯特拉拉特阿尔特 化对环烯二磺胺 计连接 化环环 化硫锑铁 医非非常性 医非非性性 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	***************	::	261 262
** Return Codes: int - ID of the new sched WI element	312	Creates a new trail object and inserts it in the trail list.	Purpose: Creates a new trail o	::	
** Outputs: int *status -	309	rail Object	Return Codes: int - ID of the new trail Object	-	
** Imputs: int ID - trail ID associated with new element ** Int submitID - submit ID associated with new element int elementID - submit element ID associated with new step associated with new	306 307 308	NONE int *status - status of the function if an error occured $% \left(1\right) =\left(1\right) ^{2}$	Inputs: NONE Outputs: Int *status - status	::::	253 254 256
** Routine: NewSchedWI	304		** Routine: NewTrailObject		
* *	303	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		*	
**************************************	302		*********************		249

Page 47 of 68

NewTrailObject

Wed Jan 02 16:32:10 2008 Page 48 of 68

NewSchedWI

Page 50 of 68	EDMRESchedApi.cc 10	Wed Jan 02 16:32:10 2008		Page 49 of 68	EDMRESchedApl.cc 9	Wed Jan 02 16:32:10 2008	Wed Jar
		-					
.temp1)); && &ailset())	<pre>ttl -> getPomplateName(trltempl, sizeOf(trltempl)); if (arxcmp(fa->templatename, trltempl) = 0 &&</pre>		409 409				
	<pre>static void findTrail(IN NWCollectable* c, IN void *f) findTrail(IN NWCollectable* c, IN void *f) findTrail(IN tri = (EINRETTrailList *) c; findArg *fa = (findArg *) f; findArg tritempl(TEMPLANME_SIZE);</pre>	######################################	398 399 400 401 402 403				(7380)
*****		*	396		um;	return winum;	379 1
match is found.	** Purpose: Sets the status to non-zero if a match is found.	** Purpose: S	393 393 395		<pre>-> setSubmitObjectID(submitID); -> setSubmitElementID(elementID);</pre>	wi -> setS wi -> setS	376 1 377 1
SubmitElement and status	Outputs: findlyg * - structure containing SubmitElement and status * Return Codes: **	** Outputs: fin ** Return Codes: ** Non	391 391		*status = SCHED_JOB_LOOKUP_FAILED; return 0;	Ų ,	372 2
against	TrailList * - TrailList to check against	** Inputs: T	386		if (wi == NULL)		
	findTrail	Routine:	383		<pre>wi = ret -> getScheduledWI(winum); InlockScheduledWiewi);</pre>		
***************************************	/**************************************	/**************************************	382		9) recurn of	364 1
Page 50 of 68	findTrail	Wed Jan 02 16:32:10 2008	of 68 Wee	Page 49 of 68	NewSchedWI	an uz 1632:	Wed

<pre>treturn ret; mumElements = so -> gerWICount(); for (1 = 1, '1 < numElements + 1, i*++) { so = so -> gerEnbEntElement(i); if (se == NULL)</pre>	ret = LockupSubmitCdJect(ID, £so, status); (f (ret = 0) (return ret; numSlements = so -> get#ICount(); (so (1 = 1; 7 < numSlements * 1; 1*+) (so = so -> get#SubmitElement(1); if (se == NULL) break; break;	*strtus = SCHED_BAL_DARM#; return -1; ret t = 0) return ret; ret t = 0; return ret; return return - patwirount(); (i = 1; i < numElement(i); (i = e = NULL) return = SCHED_SE_LOOKUP_FAILURE; break;	<pre>{</pre>	return -1; *return = ECHED_BAD_PARAM; return =1; *LOOUDS.bmitObject(ID, &ao, status); (ret != 0) *return ret; return	<pre>{</pre>	fa: fin -1; from -1; from -2; fr	int in continuous into continu	DEMORPHMENTORY ***: DEMORPHMENTALIANT ***: DEMORPHMENTALIANT ***: INT TER: INT TER	<pre>demonsterraliQueues(int ID, int *trallcount, int *status)</pre>			Generate the achedule ordered by trail. Openies (int ID, int *trailcount, int *status)	Return Codes: Return Codes: Purpose: Generate the schedule ordered by trail. Purpose: Generate the schedule ordered by trail. Expecialmitch; to int 'trailcount, int 'status) If (status = NULL) {	Int 'Estate's scale of the Function's or Methods: Int 'Estate's place of per to the trail (game count fine o) if success and non-zero otherwise Generate the schedule ordered by trail. Light of the schedule ordered by trail. Light ordered by trail.	int trailcount : place to put the trail of the function if an int 'trailcount : place to put the trail of deas: 1 0 if success and non-zero otherwise Generate the schedule ordered by trail. Comesset (int ID, int 'trailcount, int 'status intities and 'so: milties and 'so: mil	Routing GeneraleFirstOpenes Inputs: Int ID = submit ID Outputs: Int traitconn: - place to put the trait queue count Outputs: Int traitconn: - place to put the trait queue count Return Codes: Int - o if success and non-zero otherwise Purpose: Generate the schedule ordered by trait. Purpose: Generate the schedule ordered by trait. ** Purpose: Generate the schedule ordered by trait. ** EmpResonantch; wo; EmpResonantch; wo; EmpResonantch; wo; EmpResonantch; vo; If (scatus = NULL) ** ** ** ** ** ** ** ** **
<pre>punc(); s + i; i++) ment(i);</pre>), &mo, statum);), &mo, statum); a+1; &++) ament(1); _LOOMDE_PAILMEE;), &mo, status);), &mo(); ; * 1; i**) mment(); _LOOKUP_FAILURE;), &so, status);), &so, status); 1;	OAM; 5. (200, Stotus); 2. (21); 2	NAM:), &so, stacus); unc(); \$ 1; (*+) smant(1);	D, ANO, Status); D, ANO, Status); s + 1; i++) smant(1); LOOKUP_FAILURE;	D. &so., status); D. &so., status); s = 1: (1:); s = 1: (1:); LOOMID_FAILURE;	O. (BO., STATUMB); D. (BO., STATUMB); STATUME(); LOOMUR_FAILURE;	: *trailcount, int *status); 2. Aso, status);	: *trallcount, int *status) 3. Aso, status); 2. Aso, status); 5. * 1; i++) sment(1); sment(1);	: *trallcount, int *status) 2. &mo. status); 2. &mo. status); 3. &mo. status); 5. &mo. status);	dule ordered by trail. : 'trailcount, int 'status) : 'trailcount, int 'status) J. 6mo, status); D. 6mo, status); S + 1; i++) sment(1); s + 1; i++)	s and non-zero otherwise dule ordered by trail. : 'trailcount, int 'status) : 'trailcount, int 'status) J. 6ao, status); Do. 6ao, status); S * 1; i**) meant(1;; s * 1; i**)	place to put the trail que s and non-zero otherwise dule ordered by trail. t 'trailcount, int 'status) t 'trailcount, int 'status) L 'trailcount, int 'status) L 'trailcount, int 'status) LOGGD_TALLURE;	the function if an place to put the trail of an place to put the trail of an and non-zero otherwise dule ordered by trail. ***********************************	D D D ELB Of the function if an ophics to put the trail que phase to put the trail que a and non-sero otherwise duls ordered by trail. L *trailcount, int *status)
		**	-	-	-	*	-	**	;	YATE *SEARLUS)	int status)	nnt *status)	nnt *status)	the trail of ethe trail of ethe trail. otherwise reall. int *statue)	the trail que contenuise / trail.	he real que cohervise / reall.
											1			u e e	ene c	ane c
		return 0;	*trailcount = number return 0;	trailcount = numbur return 0;	<pre>if (ret <= 0) { break; } *trailcount = numbe return 0;</pre>	ret = NewSchadh if (ret <= 0) { break; } } *trailcount = numbo return 0;	reak	trl > set trl > set trl > set trl > set trl > set trl > set tre = NewSchadbe ret <= 0; trak; trallcount = number return 0;	cri service cri cri service cri cr	f (rec = {	ret = Look, if (ret = {	ret Look, if (ret = {	if (fatta, Freek; Preek; Preek; If (ret !=	fa.trailnu if (fa.tra {	char setus fs.trailnu if (50.tra f treak; break; break; tr1 > setis tr2 > setis tr2 > setis tr2 > setis tr3 > setis tr3 > setis tr4 > setis tr2 > setis tr2 > setis tr2 > setis tr3 > setis tr4 > setis tr2 > setis tr2 > setis tr2 > setis tr3 > setis tr3 > setis tr4 > setis tr4 > setis tr4 > setis tr5 > setis tr5 > setis tr1 > setis tr2 > setis tr2 > setis tr2 > setis tr3 > setis tr3 > setis tr4 > setis tr4 > setis tr4 > setis tr5 > setis tr1 > setis tr2 > setis	<pre>if (fa.trailnu</pre>
		K C	perOfQueues;	perOfQueues;	erOfQueues;	WI(fa.trailnum	emplate (setemp) MI(fα.trallnum MI(fα.trallnum	submitID(II); Alternatofrailin emplate (satemp Template (satemp WI (fa.trailnum WI (fa.trailnum)	SubmitID(ID); AlternatoFrali AlternatoFrali Template (detemp) WI(fa.tralinum WI(fa.tralinum	= 0) SubmitID(ID); AlternateFrali AlternateFrali Explate (stemp) Template (stemp) WI(fa.tralinum WI(fa.tralinum	<pre>kupTrallObject(</pre>	<pre>kupTrallObject(e 0) = 0) SubmitID(ID); AlternatoFrall AlternatoFrall MI(fa.trallnum MI(fa.trallnum</pre>	eilnum == 0) (AupTrailObject(== 0) SubmitID(ID); AlternatoFraili AlternatoFrail MI(fe.trailnum MI(fe.trailnum	um = NewTrallObject(eilnum == 0) ; kupTrallObject(== 0) ; SubmitID(ID); AlternatoFrall AlternatoFrall mi(fa.trallnum MI(fa.trallnum MI(fa.trallnum	empl(TENPLANME_ num = NewTrallOb silnum == 0) silnum == 0) ; submitID(ID); ; submitID(ID); ; hlternatofrallinum puf (fa.trallnum puf (fa.trallnum puf (fa.trallnum	um == 0) ### Object um = MewFrallObj #### AllernheterFall ##################################
						, ID, ì, stat	elempl); , ID, i, stat	set(se -> IsA 1, slzeof(set etempl); , ID, i. stat	set(se -> IsA l. sizeof(set etempl); , ID, i, stat	set(se -> Ia) 1. sixeof(set ecupi); , ID, 1. stat	fa.trailnum, sectise -> Ish l.sixeof(set ecompl); , ID, 1. stat,	fa.trailnum, sectise -> Ish l.aireof(sectermpl); .TD, i. stat.	fa.trailnum, sectime -> Inh l.sitmof(set ecumpl); , ID, i. stat	ject(statum), ject(statum), sat(se -> laA), sa	ydec((status)) ydec((status)) fa.trallnum, f	(\$4.trallnum, fa.trallnum, fa.trallnum, fa.trallnum, fa.trallnum, fa.tranlnum, fa.t
						(tus);	Kempl));	AlternateTrd: Kempl); tus];	AlternateTro: templ);	AlternateTroi stempl)); ttus);	Atrl, statu AlternateTrai Atempli); itus);	&trl, statu AlternateTroi Acapll);	&trl, statu AlternateTtoi Ntempll);	Atrl, statu AlternateTtoi htemp1);); (atrl, statu AlternateTra AlternateTra); (tus);); AlternateTei ptempll);
		eturn 0;) 'trailcount = numberofQueues; return 0;	{ break; } trailcount = numberOfQueues; sturn 0;	if (ret <= 0) {	<pre>ret = NewSchedWI(fa.trellnum, ID, i, stetus); if (ret <= 0)</pre>	rl - New reak	<pre>tril-> setSubmitIDID); trl-> setJeferniteTrilisot(se -> InAlternateTrilisot(se -> InAlterna</pre>	<pre>trl -> actiUnmicID(ID); trl -> actiUnmicID(ID); trl -> actiUnmicID(ID); ss -> perTemplate (setempl), sizeO((setempl)); ss -> perTemplate (setempl); ret = NewSchedVI(fa.trailnum, ID, i, status); if (ret <= 0)</pre>	<pre>if (rec = 0) {</pre>	<pre>ret = LookupTrallObject(fa.trallnum, ftrl, status); if (ret != 0) { break; } ttrl >> setAlternit(TD); strl >> setAlternit(Fallset(se -> ImAlternateTrallset()); ss -> parTemplate(setempl, size(setempl)); ttrl >> setTemplate(setempl); ret = NewSchedwl(fa.trallnum, ID, i, status); if (ret <= 0) } break; break; trallcount = numberOfQueuses;</pre>	<pre>ret = LookupTrallObject(fa.trallnum, &trl, status); if (ret != 0) { break; } trl -> setAlternateTrallset(se -> IsAlternateTrallset()); ss -> perTranplate(setempl, sizeef(setempl)); rrl -> setAlternateTrallset(setempl); rrl -> setTranplate(setempl, sizeef(setempl)); } rrl -> setTranplate(setempl, sizeef(setempl)); } ret = ResolnedWI(fa.trallnum, ID, i, status); if (ret <= 0) } break; } trallcount = numberOfQueuess;</pre>	<pre>if (c.trailnum == 0) { break; } ret = LookupTrailObject((a.trailnum, &trl, status); { free != 0) } foret != 0) foret != 0) trl -> setAlternateTrailset(se -> IsAlternateTrailset()); se -> perTranplate(setempl, sizeef(setempl)); rrl -> setTranplate(setempl, sizeef(setempl)); rrl -> setTranplate(setempl, sizeef(setempl)); rrl -> setTranplate(setempl, sizeef(setempl)); trl -> setTranplate(setempl, sizeef(setempl, sizeef(setempl)); trl -> setTranplate(setempl, sizeef(setempl, sizeef(sete</pre>	<pre>fa.trailnum = NewTrailObject(status); if (fc.trailnum == 0) { break; ret = LookupTrailObject(fa.trailnum, &trl, status); if (ret != 0) } break; trl -> setAlternateTrailset(se -> IsAlternateTrailset()); se -> perTramplate(setempl, sizeef(setempl)); trl -> setTremplate(setempl, sizeef(setempl)); ret = NewSchedWI(fa.trailnum, ID, i, status); ret = NewSchedWI(fa.trailnum, ID, i, status); if (ret <= 0) break; break; trailcount = numberOfQueuess;</pre>	<pre>char setemp1(TEMPLANME_SIZE); fs.trailnum = NewTrailObject(fs.trailnum, &tr1, status); if (fs.trailnum == 0) if (fs.trailnum == 0) if (ret != 0) break; break; tr1 -> setAlternatoffsilset(se -> IsAlternateffsilset()); se -> perfumplate(setemp1, sizef(setemp1)); tr1 -> setPemplate(setemp1, sizef(setemp1)); ret = NewSchedWI[fs.trailnum, ID, i, status); ret = NewSchedWI[fs.trailnum, ID, i, status); if (ret <= 0) break; break; } trailcount = numberOfQueuess;</pre>	<pre>if (fa.trailnum == 0) { char setempl[TSMPLAMM_ESTEE]; fa.trailnum = RewFrailObject(status); if (fa.trailnum == 0) { break; ret = LookupTrailObject(fa.trailnum, &trl, status); if (ret != 0) break; ret = AcostabentiD(TD); break; trl > actSubentiD(TD); break; trl > actAlternite(Trailnet(se -> InAlternate(Trailnet(i)); se -> gerTemplate(setempl, sizeof(setempl)); trl > serTemplate(setempl); ret = NewSchodbf(fa.trailnum, ID, 1, status); if (ret <= 0) break; trail-serTemplate(setempl); if tret <= 0) } } ret = NewSchodbf(fa.trailnum, ID, 1, status); if tret <= 0) } ret = numberOfQuoues; ettrailcount = numberOfQuoues;</pre>

Page 51 of 68

GenerateTrailQueues

Wed Jan 02 16:32:10 2008 Page 52 of 68

GenerateTrailQueues

petrailQuam() LockSchediadutex(); LockSchediadutex(); UnlockSchediadutex(); numberOfOunues = 0;	O;	Amestroy();	void Louischedilettrax(); trailLists.clearAndbestroy(); Unlocksthedileturax(); numberCfQueues = 0;	Purpose: Purpo all lists. viv LockScheduleMutex(); trailLists.clearAndbestroy(); UnlockScheduleMutex(); numberOfQueues = 0; }	Lists.	Lists.	Lists.
stroy();	steay();	REZOY();	aecoy();	acs:	sca.	accs;	ercoy();
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<pre>int detEveterralDusus(int ID, int drivecount, int *status)</pre>							
		\$622 \$633 \$643 \$665 \$667 \$11 \$11 \$12 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	566 567 568 569 569 569 569 569 569 569 569 569 569	558 558 558 558 558 558 558 558 558 558	\$565 \$550	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	592 593 593 593 593 593 593 593 593 593 593
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		562 563 563 565 567 1 568 1 568 1 568 1 568 1 569 1 571 1 572 2 573 2 574 1	560 561 562 563 563 565 567 571 571 572 573 574 1	558 559 560 560 560 560 560 567 577 577 577 577 577 577 577 577 577	556 558 558 558 560 560 560 567 11 572 572 572 573 573 574 574 574 574 574 574 574 574 574 574	550 550 550 550 550 560 560 560 560 560	552 554 554 556 556 556 566 566 566
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PurgeTrailQueue

Page 53 of 68 Wed Jan 02 16:32:10 2008 548

ActivateTrailQueue

Page 54 of 68

Page 55 of 68

DeactivateTrailQueue

Wed Jan 02 16:32:10 2008

Page 56 of 68

SetTQDriveConcurrency

Wed Jan 02 16:32:10 2008

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Page 55 of 68

EDMRESchedApi.cc 15

Wed Jan 02 16:32:10 2008 Page 56 of 68

EDMRESchedApi.cc 16

EDMRESchedApl.cc 18 Page 58 of 68	Wed Jan 02 16:32:10 2008	Wed Jar	Page 57 of 68	DB EDMRESchedApl.cc 17	Wed Jan 02 16:32:10 2008	Wed Jan
				š	return 0;	732 1
				*drivecount = trl -> getMaxDrives();	*drivec	730 1
	return 0;	779		return -1;) ret	726 2 727 2 728 1
trl -> setDrivesInUse(drivecount);	trl -> setD	776 1		if (trl == NULL)	if (trl	
) recurre -r,	774 1		return ret;	ret	722 2
NULL)	if (trl == NULL)	771 1		i= 0)	if (ret != 0)	720 1
ret;) return ret;	768 2 769 1		<pre>ret = LookupTrailObject(ID, &trl, status);</pre>	ret = I	716 1
. 0)	if (ret != 0)	766 1 767 2		*status = SCHED_BAD_PARAM; return -1;	ret.	
ret = LookupTrailObject(ID, &trl, status);	ret = Looku	764 1		if (drivecount == NULE)	if (dri	712 1
-1;	return -1;	760 2 761 2 762 1		return 1;	} ret	708 2 709 2 710 1
== NULL)	if (status == NULL)	759 1		If (status == NULL)	if (st	707 1
<pre>Bond: BENGETivesAcquired(int ID, int drivecount, int *status) { EDMRETivesilList *trl; int ret = 0;</pre>	<pre>int SetTQDrivesAcquired(int { EDMRETrailList *trl; int ret = 0;</pre>	753 754 755 1 756 1 757 1	*status)	Int defOptiveConcurrency(int ID, int *drivecount, int *status) { EDMRSTrailList *trl; int ret = 0;	int GetTQDriveConcurr { EDMRETrailLis int ret = 0;	701 702 703 1 704 1 705 1
	*	751			*	699
Return Codes: Return Codes: Purposes Seis the number of drives in use for the given trail Purposes Seis the number of drives in use for the given trail	** Return Codes: int	744 745 746 747 748 749	rwise for the given trail	Return Codes: - 0 if aucress and non-zero otherwise Purpose: Retrieve the number of drives to use for the given trail For the contractor.	** Return Codes: int ** ** ** ** ** ** ** ** ** ** ** ** *	692 693 696
** Inputs: int ID - crail ID ** In drivecount - the number of drives in use ** Outputs: int *status - status of the function if an error occured ***	** Imputs: i	739 740 741 742	if an error occured er of drives to use	int ID - trail ID int in - trail ID int 'gratus - status of the function if an error occured int 'drivecount - place for the number of drives to use	** Outputs:	687 688 690 691
SetTQDrivesAcquired	** Routine: S	736		: GatTQDriveConcurrency	** Routine:	685
/**************************************	/**************************************	735	******		: `:	683
		rece				_

GetTQDriveConcurrency

Page 57 of 68 Wed Jan 02 16:32:10 2008

SetTQDrivesAcquired

Page 58 of 68

Page 59 of 68	1 058	828 1	825 2 826 1	823 I 824 2	821 1	819 2	816 1	0.10	813 2	810 1	808 1	806 2 807 2	805 1	802 1 803 1	800	797		795	793	792	790	788	787	785	783	782	781
of 68	return 0;	*drivecount	return -1;	if (trl == NULL)) recorn rec.	1 (200 = 1)	ret = Lookup	,	*status = return -1;	if (drivecount == NULL)	•	{ return -1;	if (status == NULL)	EDMRETrailList *trl; int ret = 0;	GetTQDrivesAcquired(int ID,	int		***	Purpose:		** Return Codes:		Outputs:	Inputs:	Routine:	:	/**************************************
EDMRESchedApi.cc 19		*drivecount = trl -> getDrivesInUse();	10	OTE)		7	ret = LookupTrailObject(ID, &trl, status);		*status = SCHED_BAD_PARAM; return -1;	nt == NULL)		1;	= NULL)	st *trl;	red(int ID, int *drivecount, int *status)			原原水体水平的自己的水平的不同水平的水平的水平的水平的水平的水平的水平的水平的水平的水平的水平水平水平水平水	Gets the number of drives in use for the given trail for restore.	THE - O IT SOCCESS SIN HOH-YELD OCHETHER		: *arivecount - a piace to put t	int *status - status of the function if an error occured	int ID - crail ID	GetTQDrivesAcquired		
Wed Jan 02 16:32:10 2008															t *status)		****	******	or the given trail	TO O	To a second	The number of arives in	on if an error occured			***************************************	*************
Page 60 of 68	882		877 1	875 2 876 2		871 2	869 1	867 1	864 2 865 1	862 2 863 2	861 1	859 1	857 2	854 1	852 1	850	848	847	846	804	0 0 0	840	839	837	835	834	833
0 of 68 EDMRESchedApi.cc 20 Wed Jan 02 16:32:10 2008	-		*wiCount = trl -> IncrementRunningWIs();	IN TALL NOUND! [return -1;	in the state of th	return ret;	If (ret := 0)	ret = LookupTrailObject(ID, &trl, status);	return =1;	*status = SCHED_BAD_PARAM;	if (wiCount == NULL)) recent -1/	TOTAL AND TOTAL AND THE PROPERTY OF THE PROPER	is (status == NULL)	EDMRETrailList *trl;	<pre>int IncrementRunningWI(int ID, int *wiCount, int *status)</pre>	*/	*****	** Purpose: Increment the running work items for the given trail.	THE COLD COUNTY STORY COUNTY OF THE COLD CO.	** Return Codes:	** int *status - status of the function if an error occured	** Outputs: int *wiCount - number of work items running after	** Inputs: int ID - trail ID	** Routine: IncrementRunningWI **	**	/**************************************

Page 59 of 68

GetTQDrivesAcquired

Wed Jan 02 16:32:10 2008 Page 60 of 68

IncrementRunningWI

inger In	Page 62 of 68	Wed Jan 02 16:32:10 2008 EDMRESchedApi.cc 22	Wed Jan G	EDMRESchedApi.cc 21 Page 61 of 68	Wed Jan 02 16:32:10 2008	Wed J
stangOff ID - number of work froms running affor decrement. Status of the function if an error occured status of the function if an error occured status in the function if an error occured status						
ingbr spings at the function if an error occured status of the function if an error occured stands and non-zero otherwise running work items for the given trail. status) spings int 'wiCount, int 'status) spings int 'wiCount, int 'status' spings						
iningDif Single S						
inaput status) JID - number of work froms running dfor decrement. Status of the function if an error occured status of the function if an error occured status s						
iningbr strings running after status of the function if an error occurred status and non-zero otherwise running after running work items for the given trail. status int "wiCount, int "status) status int "wiCount, int "status) status						
ingbf: ID ID In In In In In In In In						
inapbit Individual control of work items running after status of the function if an error occured seamont. Status of the function if an error occured seamont						
mmontRunningWits();						933
iningDit ID ID ID Incompare of work items running after decrement. status of the function if an error occured status and non-zero otherwise running work items for the given trail. status int 'wiCount, int 'status) Int 'wiCount, int 'status' Int 'wi					return 0:	952
1 ID 10 10 10 10 10 10 10 1				<pre>*wiCount = trl -> DecrementRunningWIs();</pre>	*wiCount =	930 1
impdf 91 ID 10 - number of work items running efter 91 Status of the function if an error occursed 91 Status of the function if an error occursed 91 Funning work items for the given trail. 91 Int 'wiCount. int 'status) 92 Int 'wiCount. int 'status) 93 Int 'wiCount. int 'status' 93 Int 'wiCount. int 'wi)	928 1
1 10 10 10 10 10 10 10				12.	return -1;	927 2
inaplit ID ID In In In In In In In In				NULL)	if (trl == NULL)	925
1 10 10 10 10 10 10 10		return 0;			4	223
inimpUf 1914 ID 100 - number of work items running after 1918 Status of the function if an error occured 1918 Status of the function if an error occured 1918 Status of the function if an error occured 1918 Status of the function if an error occured 1918 Status of the function if an error occured 1918 Status of the function 1918 Status of the fu		trl -> setRunningWIs(wiCount);	974 1	ret;	return ret;	922
iningDIT ID ID Inimber of work items running after series occursed: Status of the function if an error occur					(100 :- 0)	920 1
1110 1110 1110 1110 1110 1110 1110		return -1;		9	the front I	
Impul Indicate of work items running effort ments of the function if an error occured status of the function if an error occured status and non-sero ocherwise status. Finally work items for the given trail. Int "wiCount, int "status) system in the function in the function of the function system in the function system in the function system in the function system in the function of the function system in the function system is such as a second system in the function system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function of the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second system in the function system is such as a second				ret = LookupTrailObject(ID, &trl, status);		918 1
iningbit ID ID ID In In In In In In In		if (trl == NULL)			-	916
stingDII 934 2 ID 935 - number of work froms running affor 935 status of the function if an error occured 945 strong work froms for the given trail. 945 running work froms for the given trail. 945 int "wiCount, int "status) 955 int "wiCount, int "status" 955 int "wiCount, int "		_	967 1	Jan 2	return -1;	91.6
impdf 934 2 ID 935 - number of work items running efter 935 status of the function if an error occursed 945 status of the function if an error occursed 945 running work items for the given trail. 949 running work items for the given trail. 949 int wiCount, int statum) 951 int wiCount, int statum 953 int wiCount,		return ret;	966 2	*status = SCHED_BAD_PARAM;	-	914 2
InimpWf and nor it came running after and nor accurate a status of the function if an error occurad and nor-zero otherwise status for the given trail. Francisco work items for the given trail. 100 101 101 101 102 103 103 103		if (ret != 0)		t == NULL)	if (wiCount == NULL)	912
stingBT 915 IID 915 number of work items running after search of the function if an error occured 915 status of the function if an error occured 915 running work items for the given trail. 915 int "wiCount, int "status) 915 int "wiCount, int "status) 917 918 919 919 919 919 919 919						***
iningDit 91 I ID 91 - number of work items running after 91 Status of the function if an error occured 91 Status of the function if an error occured 91 Fruncisco work items for the given trail. 91 Int 'wiCount, int 'status) 91 Int 'wiCount, int 'status 91 Int 'wiCount, int 'wiCount, int 'wiCou		<pre>ret = LookupTrailObject(ID, &trl, status);</pre>		-17	return -1;	910
lingWI 11D - number of work items running after status of the function if an error occured status of the fiven trail. status statu					_	908
iningbT 11D 215 I ID 215 - number of work items running efter 215 status of the function if an error occured 215 status of the function if an error occured 215 status of the function if an error occured 215 status of the function if an error occured 215 status of the function if an error occured 215 status of the function 215 s		return -1;		== NULL)	if (status == NULL)	907
stingbut 934 1 ID 935 - number of work froms running after 935 status of the function if an error occured 945 scress and non-zero otherwise 945 running work froms for the given trail. 948 149 140 141 141 141 141 141 141		if (status == NULL)		0;	int ret = 0;	905
Impul Indiget Indig				List *trl;	EDMRETrailList *trl;	904 1
9999 9 44 7 7 9 44 4 0 9 9 4 4 2 9 4 4 0 9 9 4 4 2 9 4 4 0 9 9 4 4 2 9 4 4 0 9 4 0 9		EDMRETrailList *trl; int rat = 0;	954 1	int *wiCount,		902
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		etRunningWI(inc id, inc Wicounc, inc *scacus)	-		int	901
940 9410 9410 9410 9410 9410 9410 9410 9		nt			*/	899
9 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		`		医阿尔特氏征 医克勒氏征 医克克氏征 医克氏征 医	***	898
934 915 916 917 917 918 919 919 941 942 943 944 944 945 947	* * * * * *				*	897
934 944 944 944 946	************	电电子电子电话电子电话 医电子电话 医电压电话 医电话电话 医克洛氏性 医克洛氏性 医克洛氏性 医克洛氏性 医克洛氏性 医		ecrement the running work items for the given trail.	** Purpose: 1	896
934 935 937 941 942 943	ven trail.	Purpose:		int - 0 if success and non-zero otherwise	: :	894
934 935 937 938 942 942 942				35:	Return Cod	893
934 935 936 937 938 939 940 941	vise	** Return Codes: int - 0 if success and non-zero otherw	-	inc 'status - status of the function if an error occured	* :	892
934 935 936 937 938 939 940				decrement.		
934 935 936 937 938	if an error occured			int *wiCount - number of work items running after	Outputs:	890
934 936 937 938	set.			int ID - trail ID	** Inputs:	888
936 93		Inputs:		one on the control of		887
934				DecrementRunningWT	** Routine:	988
934		-		****		
	*****	/**************************************		特洛洛洛 经计划存储 计可存储器 化甲基甲基苯基 医克耳氏管 医牙唇管 医牙髓 医乳球性 计分类 计计划计算机 化苯甲基苯甲基苯甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲		E 20 20
Page 62 of 68 SetHunningWil Page 62 of 68	Page 62 of 68	02 16:32:10 2008 SetHunningWI	wed Jan	Decrementalingwi	**************************************	1900

Wed Jan 02 16:32:10 2008	EDMRESchedApi.cc 24	Page 64 of 68	Wed Jan 02 16:32:10 2008	EDMRESchedApi.cc 23	Page 63 of 68	Page
	*status = SCHED_NO_MORE_JOBS; return -1;	1087 Z				
	if (sw == NULL)					
	sw = trl -> popScheduledWI();	1 8801				
	*status = SCHED_TRAIL_NOT_ACTIVE; return -1;	1079 2 1080 2 1081 1				
	<pre>if (trl -> isTrailActive() == FALSE) </pre>	O po				
	return -1;	1074 2				
	if (trl == NULL) (2 1		return 0;	_	1025 1
		1070 1		*wiCount = trl -> getRunningWIs();		1023 1
	(return ret:	1067 1		return -1;	10	
5,	ret = LookupTrailObject(ID, &trl, status);	-		if (trl == NULL)		1018
	return -1;	1062 2		return ret;	- 2 2	
Ė	if (submittD == NULL elementID == NULL)	0 H		f (ret i= 0)		1013 1
		-		ret = LockupTrailObject(ID, &trl, status);		
	return -1;	NN		return -1;	- 10 1	1008 2
	if (status == NULL)	put.			2 -	
	EDMREScheduledWI *sw; int ret = 0;	1051 1 1		f (wicount == NULL)	7	
	EDMRETrailList *trl;			return -1;	. 2	
it *elementID, int *st	popWIFromTrailQueue(int ID, int *submitID, int *elementID, int *status)	1048 PopW		if (status == NULL) {		1000
				EDMRETrailList *trl; int ret = 0;	-	996 1 997 1 998 1
**********	操作 化物质法 医电影 化氯化 医水子 医水杨素 医生物 医皮肤		tus)	GetRunningWI(int ID, int *wiCount, int *status		995
to run	•				į *	993
ID of the next work item	Purpose: Gets the submit ID and element ID of the next	::		化复数电话 化甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	* * * * * * * * * * * * * * * * * * * *	992
otherwise	Return Codes: int - 0 if success and non-zero otherwise	::		Purpose: Get the running work items for the given trail		990
t the element ID	int *elementID - a place to put the element	1037 **		int - 0 if success and non-zero otherwise	::	988
the submitID	** Outputs: int *status - status of the function if an error occursor ** int *submitID - a place to put the submitID			Return Codes:	* * *	986
			number of work items running. status of the function if an error occured	Outputs: int *wiCount - number of work items running int *status - status of the function if an .		984
	Routine: PopWIFromTrailQueue	1032		Inputs: int ID - trail ID	** 7	981
***				Routine: GetRunningWI		980
***********	/**************************************	1029 /***	*	*******	: }	979
			L			

008 EDMRESchedApi.cc 26	Wed Jan 02 16:32:10 2008	Page 65 of 68 We	EDMRESchedApi.cc 25	Wed Jan 02 16:32:10 2008	131
0,	return 0;	1135 1 1136			
(ret <= 0) return -1;	1 1 1 1 f	1130 1131 1132			
ret = NewSchedWI(ID, submitID, elementID, status);		1128 1			
<pre>if (status == NULL) { return -1; }</pre>	PNNP	1123 1124 1125 1126			
<pre>int AddWITOCTRAILQueue(int ID, int submitID, int elementID, int *status) { int ret = 0;</pre>		1118 1119 1120 1 1121 1			
	*/	1116			
the specified trail queue.		1113			
		1108 1109 1110 1111 1111			
		1106			
<pre>int ID = trail ID int submittD = the submittD of the work item int submittD = the element ID of the work item</pre>	** Inputs:	1109		return 0;	1096 1
: AddWIToTrailQueue	1 ** Routine:	1101		delete sw;	1094 1
		1100	*submitID = sw -> getSubmitObjectID(); *elementID = sw -> getSubmitElementID();	*submitID = sw . *elementID = sw	1091 1
<u>/</u> ####################################		1099		J	1089 1

PopWIFromTraflQueue

Page 65 of 68

Wed Jan 02 16:32:10 2008

AddWIToTrailQueue

Page 66 of 68

Page 67 of 68	7-120	FindTrailOueueOfWI Wed	Wed Jan 02 16:32:10 2008	Page 68 of 68	AA .	FindTrailQueueOfWl	Wed Jan 02 16:32:10 2008
1138	/**************************************	***********	L	1201)			
1139		and the control of th					
1140	** Routine:	FindTrailQueueOfWI					
1142	** Inputs:	int handle - handle to identify work item	7				
1143	** Outputs:	int *status - status of the function if an error occured	an error occured				
1146	::	INC .ID - a brace to but one trait in					
1147	** Return Codes:	odes: int = 0 if success and non-zero otherwise					
1149	* *	Commence of the control of the contr					
1511	** Fullyone.	Eurhong. Ages one cuert up or one more recen-					
1152	*****		******	on the ball and a			
1153	*/						
	int FindTrailQue	<pre>int pindTrailQueueOfWI(int handle, int *ID, int *status)</pre>					
1158 1	EDMRESub	EDMRESubmitElement *se;					
1160 1	THE	seID;					
1161 1 1162 1	findArg	ret:					
	ıf (stat	if (status == NULL)					
1166 2 1167 1	retu	return -1;					
1169 1	If (ID == NULL)	· NULL)					
1170 2	(*sta	*status = SCHED_BAD_PARAM;					
1177 2 1173 1	retu	in -L;					
1175 1	ret = ge	ret = getSubmitIDs(handle, &soID, &seID, status);					
1177 1	if (ret '= 0)	ret (= 0)					
1180 1	ret = Lo	ret = LookupSubmitElement(soID, seID, &se, status);	•				
1182 1 1183 1	if (ret 10 0)	return ret;					
1185 1	fa.alter	<pre>fa.alternate = se -> IsAlternateTrailset(); se -> getTemplate(fa.templatename, TEMPLNAME_SIZE); fa.trailnum = 0;</pre>					
1189 1	LockSche	LockScheduleMutex();					
1191 1	traillis	traillists.apply(findTrail, &fa);					
1193 1	UnlockSc	UnlockScheduleMutex();					
1195 1	if (fa.t	<pre>if (fa.trailnum == 0) return -1;</pre>					
1 8611	*ID = fa	*ID = fa.trailnum;					
1200 1	return 0;		-				Word Inc 00 16-90-10 9000
Page 67 of 68	7 01 68	EDMHESchedApi.cc 27 Wed	Wed Jan 02 16:32:10 2008	Page 58 of 58	8	EDWINESCHEUNDI-CC ZO	Man 201 05 10:05:10 5000